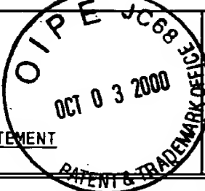


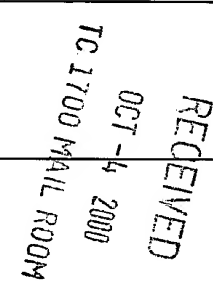
FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005/RWE/KKV		APPLICATION NO. 09/437,607	
APPLICANT CHANEY <i>et al.</i>				FILING DATE November 10, 1999		GROUP 1742/638	



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
MAI	AM1	WO 98/08991	03/05/1998	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI	AR	14	Baker, A.J.M. <i>et al.</i> , "The possibility of in situ heavy metal decontamination of polluted soils using crops of metal-accumulating plants," <i>Resources, Conservation and Recycling</i> 11:41-49 (1994)
	AS		
	AT		



EXAMINER <u>Medina A. Ibrahim</u>	DATE CONSIDERED <u>08/03/01</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

108172-00037

SERIAL NO.

09/437,607

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

CHANEY et al.

FILING DATE

November 10, 1999

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MAI	AA	5,944,872	August 31, 1999	CHANEY et al.	75	712	—
✓	AB	5,785,735	July 28, 1998	RASKIN et al.	75	711	—
	AC						
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	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
							YES	NO	PART.
	AG								
	AH								
	AI								
	AJ								
	AK								
	AL								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MAI	AM	BROOKS et al., "Some observations on the ecology, metal uptake and nickel tolerance of Alyssum serpyllifolium subspecies from the Iberian peninsula", Vegetatio 45, page 183-188 (1981).
✓	AN	SALT et al., "Phytoextraction: Present Applications and Future Promise", Bioremediation of Contaminated Soils, 42, pages 729-743.
	AO	

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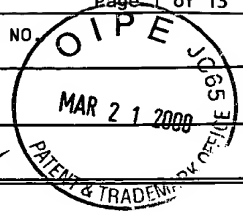
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*EXAMINER:

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1797.0090005	APPLICATION NO. 09/437,607
	APPLICANT Chaney <i>et al.</i>	
	FILING DATE November 10, 1999	GROUP 1742/638



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MAI	AA1	5,320,663	06/14/1994	Cunningham	75	432	07/02/1992
	AB1	5,393,426	02/28/1995	Raskin <i>et al.</i>	210	602	06/04/1993
	AC1	5,364,451	11/15/1994	Raskin <i>et al.</i>	75	710	06/04/1993
	AD1	5,407,817	04/18/1995	Lightsey <i>et al.</i>	435	165	08/12/1994
	AE1	5,571,703	11/05/1996	Chieffalo <i>et al.</i>	435	105	04/14/1995
	AF1	5,711,784	01/27/1998	Chaney <i>et al.</i>	75	712	06/06/1995
	AG1	5,728,300	03/17/1998	Kapulnik <i>et al.</i>	210	602	02/15/1996
	AH1	5,779,164	07/14/1998	Chieffalo <i>et al.</i>	241	17	09/23/1996
	AI1	5,785,735	07/28/1998	Raskin <i>et al.</i>	75	711	06/01/1994
	AJ1	5,853,576	12/29/1998	Kapulnik <i>et al.</i>	210	150	08/15/1997
	AK1	5,917,117	06/29/1999	Ensley <i>et al.</i>	75	711	03/21/1996

FOREIGN PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI	AR	1	Baker, "Terrestrial Higher Plants Which Hyperaccumulate Metallic Elements- Review of Their Distribution, Ecology and Phytochemistry," <i>Biorecovery</i> 1:81-126 (1986)
	AS	1	Baker <i>et al.</i> , "The Possibility of an in Situ Heavy Metal Decontamination of Polluted Soils Using Crops of Metal-accumulating Plants," <i>Resources, Conservation and Recycling</i> 11:41-49 (1994)
	AT	1	Bernstein, E., "Scientist Using Plants to Clean Up Metals in Contaminated Soil," <i>New York Times</i> , September 8, 1992, p. C4.

EXAMINER Medina A. Ibrahim	DATE CONSIDERED 07/03/01
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
				APPLICANT Chaney et al.		Page 2 of 13 MAR 21 2000 PATENT & TRADEMARK OFFICE	
				FILING DATE November 10, 1999			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MAI ↓	AA2	5,927,005	07/27/1999	Gardea-Torresdey et al.	47	58.1	04/09/1997
	AB2	5,928,406	07/27/1999	Salt et al.	75	712	11/01/1994
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MAI ↓	AR	2	Boyd, R.S. et al., "Nickel Hyperaccumulation Defends <i>Streptanthus polygaloides</i> (Brassicaceae) against Pathogens," <i>Am. J. Botany</i> 81:294-300 (March 1994)				
	AS	2	Brooks et al., "Detection of Nickeliferous Rocks by Analysis of Herbarium Specimens of Indicator Plants," <i>J. Geochem. Exploration</i> 7:49-57 (1977)				
	AT	2	Brooks et al., "Nickel Accumulation by European Species of the Genus <i>Alyssum</i> ," <i>Proc. R. Soc. Lond. B.</i> 200:217-224 (1978)				
EXAMINER <u>Medina A. Ibrahe</u>					DATE CONSIDERED <u>07/03/01</u>		
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
				APPLICANT Chaney <i>et al.</i>			
				FILING DATE November 10, 1999		GROUP 1742/638	

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U.S. PATENT DOCUMENTS							
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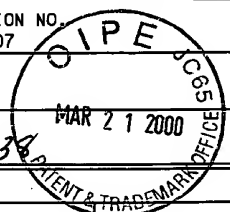
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI ↓	AR	3	Brooks <i>et al.</i> , "Hyperaccumulation of Nickel by Alyssum Linnaeus (Cruciferae)," <i>Proc. R. Soc. Lond. B.</i> 203:387-403 (1979) ?
	AS	3	Brooks <i>et al.</i> , "Accumulation of Nickel by Terrestrial Plants," in <i>Nickel in the Environment</i> , J.O. Nriagu, ed., Wiley, New York, NY, pp. 407-430 (1980) ?
	AT	3	Brooks <i>et al.</i> , "Some Observation on the Ecology, Metal Uptake and Nickel Tolerance of Alyssum Serpyllifolium Subspecies from the Iberian Peninsula," <i>Vegetation</i> 45:183-188 (1981) ?

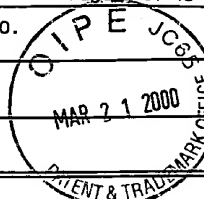
EXAMINER Medina A. Ibrahim	DATE CONSIDERED 07/03/01
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
				APPLICANT Chaney <i>et al.</i>		Page 4 of 13 MAR 21 2000 OFFICE OF PATENT & TRADEMARK OFFICE	
				FILING DATE November 10, 1999			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MAI ↓	AR	4	Brooks <i>et al.</i> , "The Criminal Form and Physiological Function of Nickel in some Iberian Alyssum Species," <i>Physiologia Plantarum</i> 51:167-170 (1981)				
	AS	4	Cunningham, S.D. <i>et al.</i> , "Phytoremediation of contaminated soils," <i>TibTech</i> 13:393-397 (September 1995) ✓				
	AT	4	de Varennes <i>et al.</i> , "Effect of Heavy Metals on the Growth and Mineral Composition of a Nickel Hyperaccumulator," <i>J. Plant Nutr.</i> 19:669-676 (1996)				
EXAMINER					DATE CONSIDERED		
Medina A. Ibrahim					07/03/01		
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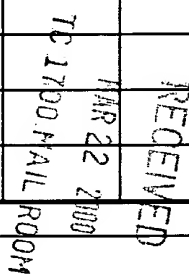
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MAI ↓	AR	<u>5</u>	Gabbrielli, R. <i>et al.</i> , "Accumulation Mechanisms and Heavy Metal Tolerance of a Nickel Hyperaccumulator," <i>J. Plant Nutr.</i> 14:1067-1080 (1991) ✓				
	AS	<u>5</u>	Gambi <i>et al.</i> , "Some Aspects of the Metabolism of <i>Alyssum bertolonii</i> Desv.," pp. 319-329, Abstract (1992)				
	AT	<u>5</u>	Gambi <i>et al.</i> , "Investigation on a Nickel Accumulating Plant: ' <i>Alyssum bertolonii</i> ' Desv. I., Nickel, Calcium and Magnesium Content and Distribution During Growth," <i>Webbia Abstract</i> 32:175-188 (May 1998)				
EXAMINER					DATE CONSIDERED		
Medina A. Ibrahim					07/03/01		
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
				APPLICANT Chaney <i>et al.</i>			
				FILING DATE November 10, 1999		GROUP 1742-1638	



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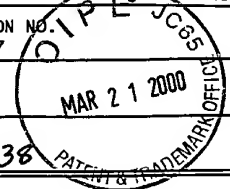


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI ↓	AR	6	Homer <i>et al.</i> , "Characterization of the Nickel-rich Extract from the Nickel Hyperaccumulator <i>Dichapetalum Geloniodes</i> ," <i>Phytochem.</i> 30:2141-2145 (1991)
	AS	6	Homer <i>et al.</i> , "Comparative Studies of Nickel, Cobalt and Copper Uptake by Some Nickel Hyperaccumulators of the Genus <i>Alyssum</i> ," <i>Plant and Soil</i> 138:195-205 (1991)
	AT	6	Huang, J.W. and S.D. Cunningham, "Lead phytoextraction: species variation in lead uptake and translocation," <i>New Phytol.</i> 134:75-84 (September 1996)

EXAMINER <u>Medina A. Ibrahim</u>	DATE CONSIDERED <u>07/03/01</u>
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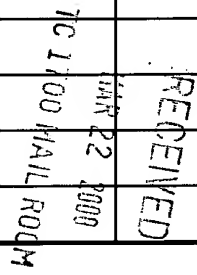
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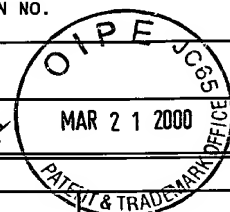


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI	AR	Z	Kruckeberg, A.R. <i>et al.</i> , "Hyperaccumulation of Nickel by <i>Arenaria Rubella</i> (Caryophyllaceae) from Washington State," <i>Madrono West Amer. J. Bot.</i> 40:25-30 (January-March 1993) ✓
	AS	Z	Kruckeberg, A.R. and R.D. Reeves, "Nickel Accumulation by Serpentine Species of <i>Streptanthus</i> (Brassicaceae): Field and Greenhouse Studies," <i>Madrono</i> 42:458-469 (October-December 1995) ✓
	AT	Z	Lasat, M.M. <i>et al.</i> , "Physiological Characterization of Root Zn ²⁺ Absorption and Translocation to Shoots in Zn Hyperaccumulator and Nonaccumulator Species of <i>Thlaspi</i> ," <i>Plant Physiol.</i> 112:1715-1722 (December 1996) ✓

EXAMINER <u>Medina A. Ibrahe</u>	DATE CONSIDERED 07/03/01
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				APPLICANT Chaney <i>et al.</i>			
				FILING DATE November 10, 1999		GROUP 1742 1638	
U.S. PATENT DOCUMENTS							
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MAI ↓	AR	8	Martens, S.N. and R.S. Boyd, "The ecological significance of nickel hyperaccumulation: a plant chemical defense," <i>Oecologia</i> 98:379-384 (August 1994) ✓				
	AS	8	Morrison <i>et al.</i> , "Nickel Uptake by Alyssum Species," <i>Plant Sci. Letters</i> 17:451-457 (1980)				
	AT	8	Pollard, A.J. and A.J.M. Baker, "Quantitative genetics of zinc hyperaccumulation in <i>Thlaspi Caerulescens</i> ," <i>New Phytol.</i> 132:113-118 (January 1996) ✓				
EXAMINER					DATE CONSIDERED		
Medina A. Ibrahim					07/03/01		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI ↓	AR	2	Pollard, A.J. and A.J.M. Baker, "Deterrence of herbivory by zinc hyperaccumulation in <i>Thlaspi caerulescens</i> (Brassicaceae)," <i>New Phytol.</i> 135:655-658 (April 1997)
	AS	2	Reeves et al., "Uptake of Nickel by Species of <i>Alyssum</i> , <i>Bornmuellera</i> , and Other Genera of Old World Tribus <i>Alysseae</i> ," <i>Taxon</i> 32:187-192 (May 1983)
	AT	2	Reeves, "The Hyperaccumulation of Nickel by Serpentine Plants," in <i>The Vegetation of Ultramafic (Serpentine) Soils: Proceedings of the First International Conference of Serpentine Ecology</i> , pp. 253-277 (1991)

EXAMINER <u>Medina A. Ibrahim</u>	DATE CONSIDERED <u>07/03/01</u>
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
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		GROUP 1742-1636		MAR 21 2000 U.S. PATENT & TRADEMARK OFFICE	

U.S. PATENT DOCUMENTS						
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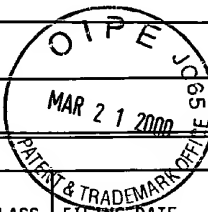
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MAI	AR	10	Robinson <i>et al.</i> , "The Nickel Hypeaccumulator Plant <i>Alyssum Bertolonii</i> as a Potential Agent for Phytoremediation and Phytomining of Nickel," <i>J. Geochem. Exploration</i> 59:75-86 (1997)
	AS	10	Sagner, S. <i>et al.</i> , "Hyperaccumulation, Complexation and Distribution of Nickel in <i>Sebertia Acuminata</i> ," <i>Phytochem.</i> 47:339-347 (February 1998)
	AT	10	Salt <i>et al.</i> , "Phytoremediation : A Novel Strategy for the Removal of Toxic Metals from the Environment Using Plants," <i>Biotechnol.</i> 13:468-473 (May 1995)

EXAMINER Medina A. Ibrahim	DATE CONSIDERED 07/03/01
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
				APPLICANT Chaney <i>et al.</i>			
				FILING DATE November 10, 1999		GROUP 1742-1638	



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI ↓	AR	11	Shen, Z.G. <i>et al.</i> , "Uptake and transport of zinc in the hyperaccumulator <i>Thlaspi caerulescens</i> and the non-hyperaccumulator <i>Thlaspi ochroleucum</i> ," <i>Plant Cell Environ.</i> 20:898-906 (July 1997)
	AS	11	Tichý, R. <i>et al.</i> , "Use of elemental sulphur to enhance a cadmium solubilization and its vegetative removal from contaminated soils," <i>Nutrient Cycling Agroecosyst.</i> 46:249-255 (1997)
	AT	11	Tilstone, G.H. and M.R. Macnair, "The Consequence of Selection for Copper Tolerance on the Uptake and Accumulation of Copper in <i>Mimulus guttatus</i> ," <i>Ann. Bot.</i> 80:747-751 (December 1997)

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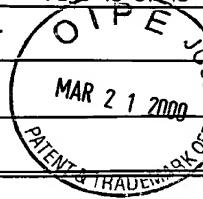
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI	AR	12	Tolrà, R.P. <i>et al.</i> , "Zinc Hyperaccumulation in <i>Thlaspi caerulescens</i> . II. Influence on Organic Acids," <i>J. Plant Nutr.</i> 19:1541-1550 (1996)
	AS	12	Nanda Kumar, P.B.A. <i>et al.</i> , "Phytoextraction: The Use of Plants To Remove Heavy Metals from Soils," <i>Environ. Sci. & Technol.</i> 29:1232-1238 (1995)
	AT	12	Raskin, I. <i>et al.</i> , "Bioconcentration of heavy metals by plants," <i>Curr. Opin. Biotechnol.</i> 5:285-290 (1994)

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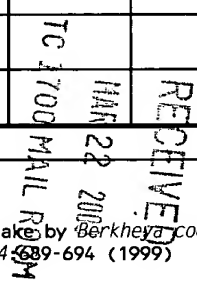
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1797.0090005		APPLICATION NO. 09/437,607	
		APPLICANT Chaney <i>et al.</i>			
		FILING DATE November 10, 1999		GROUP 1742-1636	



U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No



OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MAI ↓	AR	13	Robinson, B.H. <i>et al.</i> , "Soil Amendments Affecting Nickel and Cobalt Uptake by <i>Berkheya coddii</i> : Potential Use for Phytomining and Phytoremediation," <i>Annals of Botany</i> 84:689-694 (1999)
	AS	13	Romero, F. <i>et al.</i> , "Metal Plant and Soil Pollution Indexes," <i>Water, Air, and Soil Pollution</i> 34:347-352 (1987)
	AT	13	BoDD (Botanical Dermatology Database), < http://www.uwcm.ac.uk//uwcm/dm/BoDD/BotDermFolder/BotDermC > (visited August 25, 1999)

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